

Carbon Charts: Proof of Concept Contract

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1 Introduction

Carbon Charts is an open-source JavaScript data visualization library that will be used as a functional component of IBM's Carbon Design System.

The proof of concept will demonstrate:

- Data visualization using Carbon Charts.
- All chart types described in the requirements document. (Line, Area, Bubble, Pie, Donut, Stacked Bar, Grouped Bar).
- Real-time recording of various sensory data. This data was generated by a simulation in our demo but will be fulfilled with a hardware component in the proof-of-concept.
- Support in all Tier A browsers will be demonstrated (latest versions of Chrome, Firefox, Opera and Safari).

Demo: <https://yj8j52vl7z.codesandbox.io>

2 Conclusion

Successful demos of our proof of concept contract indicates that we have substantially completed our project. This is because the proof-of-concept includes views from the stakeholders, application developers and users. Due to the open source nature of this library, application developers must be able to easily extend existing functionality for their intended use. In our proof-of-concept we demonstrated this by simulating real-time data while concurrently visualizing the data via various charts provided through the Carbon Charts library. Application users will use the charts generated by the charting library to visually interpret data, recognize patterns and derive insights.